AUTODOC CLUB

How to change front wheel bearing on **AUDI 90 B3 (89, 89Q, 8A)** – replacement guide

SIMILAR VIDEO TUTORIAL

This video shows the replacement procedure of a similar car part on another vehicle

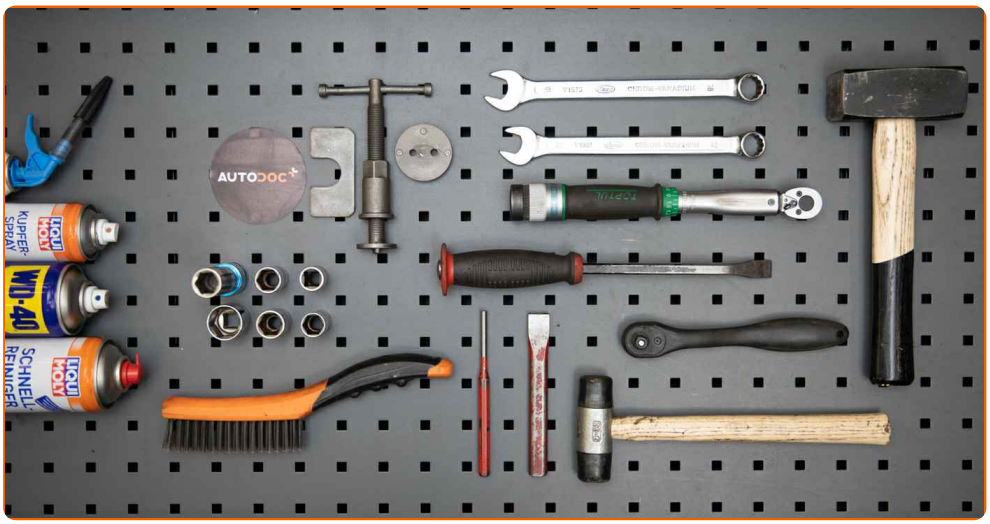
Important!

This replacement procedure can be used for:
AUDI 90 B3 (89, 89Q, 8A) 2.0, AUDI 90 B3 (89, 89Q, 8A) 2.3 E, AUDI 90 B3 (89, 89Q, 8A) 2.3 E quattro, AUDI 90 B3 (89, 89Q, 8A) 2.3 E 20V quattro, AUDI 90 B3 (89, 89Q, 8A) 2.2 E, AUDI 90 B3 (89, 89Q, 8A) 2.2 E quattro, AUDI 90 B3 (89, 89Q, 8A) 1.6 TD, AUDI 90 B3 (89, 89Q, 8A) 2.0 20 V, AUDI 90 B3 (89, 89Q, 8A) 2.0 20 V quattro

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: AUDI 80 B4 Saloon (8C2) 2.0

REPLACEMENT: WHEEL BEARING – AUDI 90 B3 (89, 89Q, 8A). LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- High-temperature ceramic grease
- Torque wrench
- Combination spanner #17
- Combination spanner #21
- Drive socket # 17
- Drive socket # 22
- Drive socket # 24
- Wheel impact socket #17
- Ratchet wrench
- Bush and bearing driver set
- Hammer
- Pin punch
- Rubber mallet
- Tap wrench
- Wheel chock

Buy tools

Replacement: wheel bearing – AUDI 90 B3 (89, 89Q, 8A). AUTODOC recommends:

- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- Do not re-use the bearing assembly of your AUDI 90 B3 (89, 89Q, 8A) car.
- All work should be done with the engine stopped.

REPLACEMENT: WHEEL BEARING – AUDI 90 B3 (89, 89Q, 8A). TAKE THE FOLLOWING STEPS:

1 Secure the wheels with chocks.

2 Loosen the wheel mounting bolts. Use wheel impact socket #17.

3 Raise the front of the car and secure on supports.

4 Unscrew the wheel bolts.

Replacement: wheel bearing – AUDI 90 B3 (89, 89Q, 8A). Tip:

- To avoid injury, hold up the wheel when unscrewing the bolts.

5 Remove the wheel.

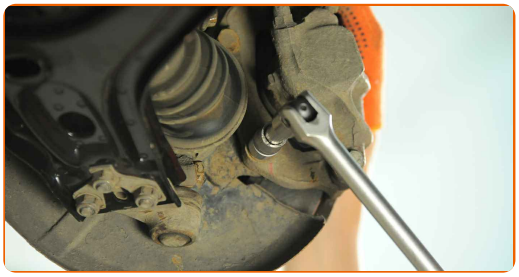
6 Clean the wheel hub fastener. Use a wire brush. Use WD-40 spray.

7 Unscrew the wheel hub axle nut. Use a drive socket #24. Use a ratchet wrench.

8 Remove the fastening bolt.

9 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.

10 Unscrew the caliper bracket fastening. Use a drive socket #17. Use a tap wrench.



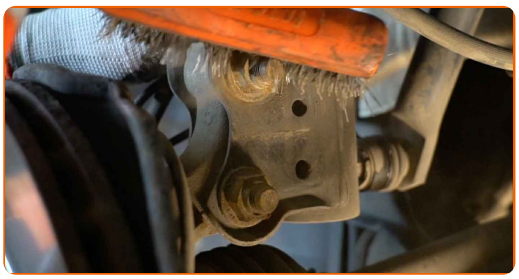
11 Remove the brake caliper together with its bracket.

Replacement: wheel bearing – AUDI 90 B3 (89, 89Q, 8A). AUTODOC experts recommend:

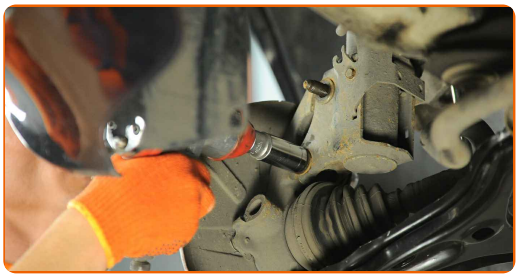
- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.
- Check the brake caliper bracket, brake caliper guide pins and boots. Clean them. Replace, if necessary.

12 Remove the brake disc.

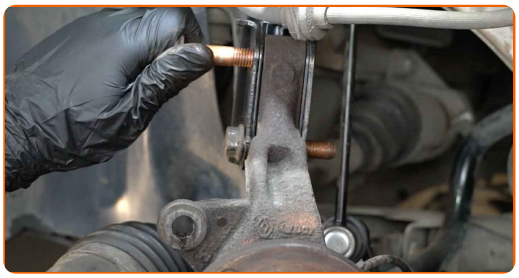
13 Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.



14 Unscrew the fasteners connecting the suspension strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #22. Use a ratchet wrench.



15 Remove the fastening bolts.



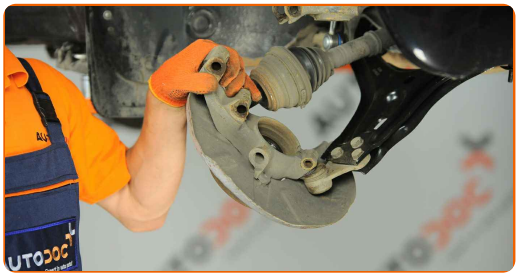
16 Clean the fastener that connects the ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.

17 Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.

18 Remove the fastening bolt.

19 Disconnect the steering knuckle from the shock absorber strut.

20 Detach the driveshaft from the steering knuckle. Use a pin punch. Use a hammer.



21 Disconnect the lower arm from the steering knuckle. Use a rubber mallet.

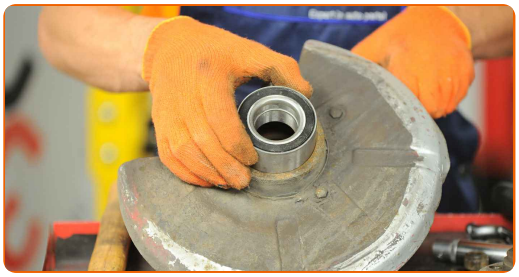
22 Remove the steering knuckle together with the hub.

23 Remove the wheel hub from the steering knuckle. Use a bush and bearing driver set. Use a hammer.

24 Press out the wheel hub bearing. Use a bush and bearing driver set.

25 Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.

26 Press the new bearing in the steering knuckle. Use a bush and bearing driver set.



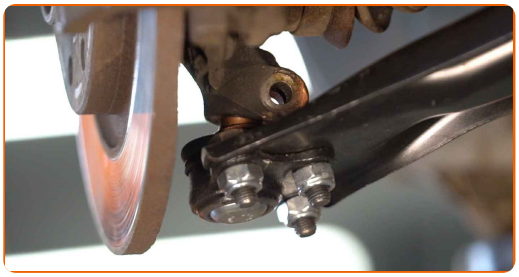
Replacement: wheel bearing – AUDI 90 B3 (89, 89Q, 8A). Tip from AUTODOC:

- Check to make sure the wheel hub bearing is positioned correctly. Avoid its misalignment.
- Stop pressing on the surface of the bearing immediately after it has been fitted into its mounting seat.

27 Install the wheel hub on the steering knuckle. Use a bush and bearing driver set.

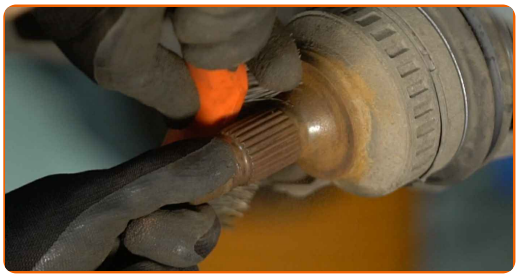
28 Install the steering knuckle with a hub in assembly.

29 Connect the lower control arm to the steering knuckle.



30 Install the fastening bolt.

31 Treat the splines of the driveshaft CV joint. Use a wire brush. Use WD-40 spray.

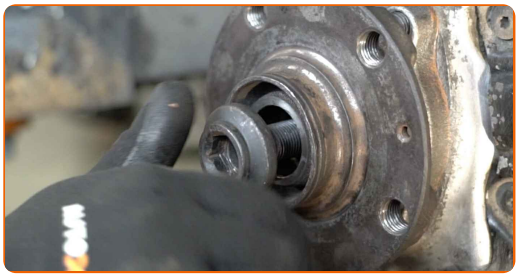


32 Install the steering knuckle on the CV axle.

33 Fix the shock absorber strut on the steering knuckle.

34 Install the fastening bolts.

35 Install the fastening bolt.



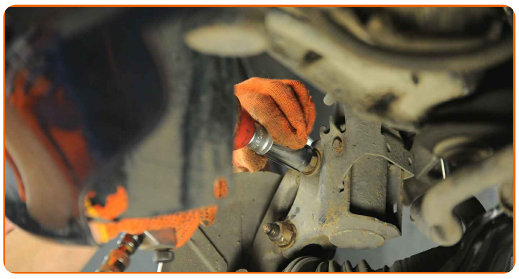
36 Tighten the hub. Use a drive socket #24. Use a torque wrench. Tighten it to 200 Nm torque.+90°

AUTODOC recommends:

- Important! Be sure to use new fasteners.

37 Tighten the fastener connecting the ball joint to the steering knuckle. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 50 Nm torque.

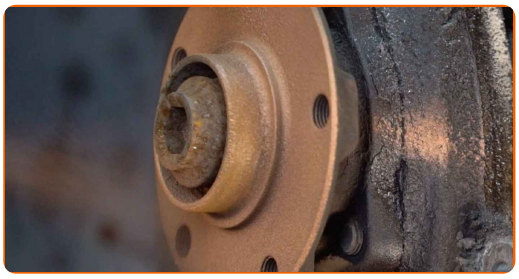
38 Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #21. Use a drive socket #22. Use a torque wrench. Tighten it to 110 Nm torque.+90°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

39 Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.

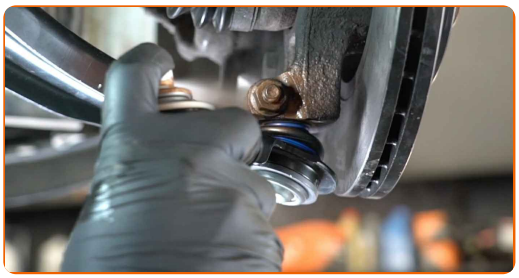


40 Install the brake disc.

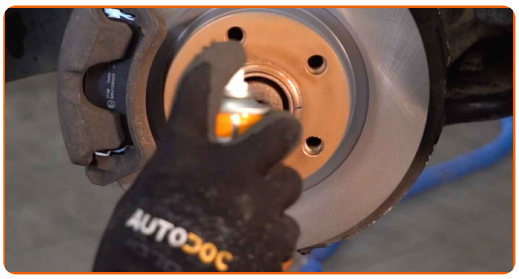
41 Install the brake caliper together with its bracket.

42 Tighten the brake caliper bracket. Use a drive socket #17. Use a torque wrench. Tighten it to 125 Nm torque.

43 Treat the fasteners of the ball joint. Treat the shock strut fasteners. Use copper grease.



44 Treat the surface where the brake disc contacts the wheel rim. Use high-temperature ceramic grease.



45 Clean the brake disk surface. Use a brake cleaner.

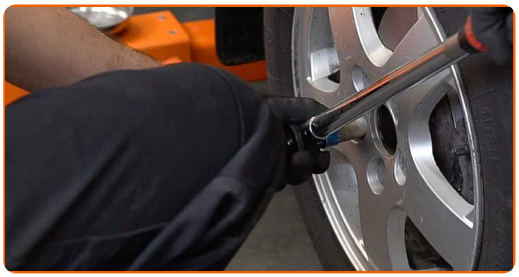
46 Install the wheel.

Replacement: wheel bearing – AUDI 90 B3 (89, 89Q, 8A). Professionals recommend:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

47 Screw in the wheel bolts. Use wheel impact socket #17.

48 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 nm torque.



49 Remove the jacks and chocks.

WELL DONE!

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